

SEQUENCE LISTING

<213> Homo sapiens

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<222> (543)

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<222> (697)

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<222> (926)

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tgcagccagg cactgccctg ctgtgctact cctgcaaagc ccagggtgagc aacgaggact 120
gcctgcagggt ggagaactgc acccagctgg gggagcagtg ctggaccgog cgcataccgog 180
cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgcgtg gatgactcac 240
aggactacta cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgcca 300
gcggggccca tgccctgcag ccggctgccg ccataccttg gctgctccct gcaactcggcc 360
tgctgctctg gggacccggc cagctatagg ctctgggggg ccccgctgca gcccacactg 420
ggtgtggtgc ccaggcctt tgtgccactc ctcacagaac ctggcccagt gggagcctgt 480
cctgggttct gaggcacatc ctaacgcaag tttgaccatg tatgtttgca ccccttttcc 540
ccnaaccctg accttcccat gggccttttc caggattccn accnggcaga tcagttttag 600
tganacanat ccgcntgcag atggcccctc caacnnttn tgttgntgtt tccatggccc 660
agcattttcc acccttaacc ctgtgttcag gcacttnttc ccccggaag ccttccctgc 720
ccaccccat tattaattga gccaggtttg gtccgtggtg tccccgcac ccagcagggg 780
acaggcaatc aggagggccc agtaaaggct gagatgaagt ggactgagta gaactggagg 840
acaagagttg acgtgagttc ctgggagttt ccagagatgg ggcttgagg cctggaggaa 900
ggggccaggc ctcacatttg tgggntccc gaatggcagc ctgagcacag cgtaggccct 960
taataaacac ctgttgata agccaaaaa aaaaaaaa 998
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<210> 2

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> PEPTIDE

<222> (50)..(64)

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<221> PEPTIDE

<222> (71)..(82)

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<222> (67)..(81)

<400> 2

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  1             5             10             15
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Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
      20             25             30
```

```
Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
      35             40             45
```

```
Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
      50             55             60
```

```
Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
      65             70             75             80
```

```
Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
      85             90             95
```

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Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
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100

105

110

Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
 115 120

<210> 3

<211> 441

<212> DNA

<213> Mus musculus

<400> 3

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 tgcagcctgg accagcacag ttgctttaca tcgcgcatcc gggccattgg actcgtgaca 180
 gttatcagta agggctgcag ctacacagtgt gaggatgact cggagaacta ctatttgggc 240
 aagaagaaca tcacgtgctg ctactctgac ctgtgcaatg tcaacggggc ccacaccctg 300
 aagccaccca ccaccctggg gctgctgacc gtgctctgca gcctgttgct gtggggctcc 360
 agccgtctgt aggcctctggg agagcctacc atagcccgat tgtgaaggga tgagctgcac 420
 tccaccccac ccccacacag g 441

<210> 4

<211> 123

<212> PRT

<213> Mus musculus

<400> 4

Met Lys Thr Val Phe Phe Ile Leu Leu Ala Thr Tyr Leu Ala Leu His
 1 5 10 15

Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
 20 25 30

Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
 35 40 45

Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
 50 55 60

Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
 65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
 85 90 95

Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
 100 105 110

Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
 115 120

<210> 5

<211> 131

<212> PRT

<213> Homo sapiens

<400> 5

Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
1 5 10 15

Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
20 25 30

Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
35 40 45

Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
50 55 60

His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
65 70 75 80

Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
85 90 95

Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
100 105 110

Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
115 120 125

Phe Gly Pro
130

<210> 6

<211> 123

<212> PRT

<213> Homo sapiens

<400> 6

Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln
1 5 10 15

Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
20 25 30

Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
35 40 45

Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
50 55 60

Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
85 90 95

Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
100 105 110

Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
115 120

<210> 7
<211> 123
<212> PRT
<213> Mus musculus

<400> 7
Met Lys Thr Val Leu Phe Leu Leu Leu Ala Thr Tyr Leu Ala Leu His
1 5 10 15
Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
20 25 30
Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
35 40 45
Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
50 55 60
Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
65 70 75 80
Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
85 90 95
Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
100 105 110
Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
115 120

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 8
ttctcctgct ggccacctac

20

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 9
gcagctcatc ccttcacaat

20

<210> 10
<211> 408
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 1G8

<400> 10
tgcttcttcc tgatggcagt gggtatagga gtcaattcag aggttcagct gcagcagtct 60
ggggcagaac ttgtgaggtc aggggcctca gtcaagttgt cctgcacagc ttctggcttc 120
aacattaaag actactatat acactgggtg aatcagaggc ctgaccaggg cctggagtgg 180
attggatgga ttgatcctga gaatggtgac actgaatttg tcccgaagtt ccagggcaag 240
gccactatga ctgcagacat tttctccaac acagcctacc tgcacctcag cagcctgaca 300
tctgaagaca ctgccgtcta ttactgtaaa acgggggggtt tctggggcca agggactctg 360
gtcactgtct ctgcagccaa aacgacaccc ccactctgtct atccactg 408

<210> 11
<211> 136
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 1G8

<400> 11
Cys Phe Phe Leu Met Ala Val Val Ile Gly Val Asn Ser Glu Val Gln
1 5 10 15
Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala Ser Val Lys
20 25 30
Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile His
35 40 45
Trp Val Asn Gln Arg Pro Asp Gln Gly Leu Glu Trp Ile Gly Trp Ile
50 55 60
Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe Gln Gly Lys
65 70 75 80
Ala Thr Met Thr Ala Asp Ile Phe Ser Asn Thr Ala Tyr Leu His Leu
85 90 95
Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Lys Thr Gly
100 105 110
Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr
115 120 125
Thr Pro Pro Ser Val Tyr Pro Leu
130 135

<210> 12
<211> 426
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 4A10

<400> 12
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ctggtgaggc ctggaacttc agtgaagctg tcctgcaagg cttctggcta tacattctcc 120
agctactgga tgcactgggt gaagcagagg cctggacaag gccttgagtg gattggaaat 180
attgaccctg gtagtgggta cactaactac gctgagaacc tcaagaccaa ggccacactg 240
actgtagaca catcctccag cacagcctac atgcagctca gcagcctgac atctgaggac 300
tctgcagtct attactgtac aagccgatct actatgatta cgacgggatt tgcttactgg 360
ggccaaggga ctctggtcac tgtctctgca gctacaacaa cagccccatc tgtctatcca 420
ctggcc 426

<210> 13
<211> 142
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 4A10

<400> 13
Leu Val Ala Thr Ala Ser Asp Val His Ser Gln Val Gln Leu Gln Gln
1 5 10 15
Pro Gly Ser Glu Leu Val Arg Pro Gly Thr Ser Val Lys Leu Ser Cys
20 25 30
Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr Trp Met His Trp Val Lys
35 40 45
Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Asn Ile Asp Pro Gly
50 55 60
Ser Gly Tyr Thr Asn Tyr Ala Glu Asn Leu Lys Thr Lys Ala Thr Leu
65 70 75 80
Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu
85 90 95
Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Thr Ser Arg Ser Thr Met
100 105 110
Ile Thr Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
115 120 125
Ser Ala Ala Thr Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala

130

135

140

<210> 14

<211> 453

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 2H9

<400> 14

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gtgaggcttg aggagtctgg aggaggctgg gtgcaacctg gaggatccat gaaactctcc 120
tgtgtagcct ctggatttac tttcagtaat tactggatga cttgggtccg ccagtctcca 180
gagaaggggc ttgagtgggt tgctgaaatt cgattgagat ctgaaaatta tgcaacacat 240
tatgcggagt ctgtgaaagg gaaattcacc atctcaagag atgattccag aagtcgtctc 300
tacctgcaaa tgaacaactt aagacctgaa gacagtggaa tttattactg tacagatggg 360
ctggggacgac ctaactgggg ccaagggact ctggtcactg tctctgcagc caaacgcaca 420
cccccatctg tctatccact ggccccttgt gta 453

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<210> 15

<211> 151

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 2H9

<400> 15

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Asn Asp Phe Gly Leu Ser Trp Val Phe Ile Ile Val Leu Leu Lys Gly
 1             5             10             15

Val Arg Ser Glu Val Arg Leu Glu Glu Ser Gly Gly Gly Trp Val Gln
      20             25             30

Pro Gly Gly Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe
      35             40             45

Ser Asn Tyr Trp Met Thr Trp Val Arg Gln Ser Pro Glu Lys Gly Leu
      50             55             60

Glu Trp Val Ala Glu Ile Arg Leu Arg Ser Glu Asn Tyr Ala Thr His
      65             70             75             80

Tyr Ala Glu Ser Val Lys Gly Lys Phe Thr Ile Ser Arg Asp Asp Ser
      85             90             95

Arg Ser Arg Leu Tyr Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Ser
      100            105            110

Gly Ile Tyr Tyr Cys Thr Asp Gly Leu Gly Arg Pro Asn Trp Gly Gln
      115            120            125

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Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr Thr Pro Pro Ser Val
130 135 140

Tyr Pro Leu Ala Pro Cys Val
145 150

<210> 16
<211> 15
<212> PRT
<213> Homo sapiens

<400> 16
Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
1 5 10 15

<210> 17
<211> 12
<212> PRT
<213> Homo sapiens

<400> 17
Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly Lys Lys
1 5 10

<210> 18
<211> 15
<212> PRT
<213> Homo sapiens

<400> 18
Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly Lys
1 5 10 15

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 19
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21

<210> 20
<211> 22
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 20
ccagagcagc aggccgagtg ca 22

<210> 21
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 21
gggaattcgc acagccttca gggtc 25

<210> 22
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 22
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<210> 23
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 23
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<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

<400> 24
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<210> 25
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: RT-PCR PRIMER

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<222> (18)
<223> a or g

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<222> (22)
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<220>
<221> misc_feature
<222> (28)
<223> g or t

<220>
<221> misc_feature
<222> (31)
<223> a or c

<220>
<221> misc_feature
<222> (34)
<223> g or c

<400> 25
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39

<210> 26
<211> 39
<212> DNA
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<220>
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<222> (11)
<223> c or t

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<222> (25)..(26)
<223> a or g

<400> 26
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<210> 27
<211> 39
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RT-PCR PRIMER

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<222> (17)

<223> a or g

<220>

<221> misc_feature

<222> (26)

<223> c or t

<220>

<221> misc_feature

<222> (33)

<223> g or t

<400> 27

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39

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